



metu™ acoustic treatment
Wall & Ceiling Panels
 (FRP: Frequency Response Technology)

“Hearing Is Believing”

Product Data Sheet



24"x48" wall panel shown

Superior Performance, Design, & Flexibility are three important qualities that define metu™ acoustic treatment Wall & Ceiling Panels. .

Performance: metu™ Wall & Ceiling Panels are engineered and tested to control sound energy and it's distortion as a result of room boundary conditions. The control of first order reflections and room reverberation times are important sound quality parameters addressed by metu acoustic treatment panels, however, there are six sound quality metrics that AVRS uses to define the extraordinary acoustical performance of metu™ Wall & Ceiling Panels:

1. **Dynamics**
2. **Timbre**
3. **Bass Definition**
4. **Imaging**
5. **Soundstage**
6. **Detail**

Design: metu™ Acoustic Treatment Wall Panels offer elegant furniture designs in custom prefinished wood grains or paint finishes. The fabric wrapped acoustical panels are offered in a selection of custom fabrics and colors. metu™ Wall & Ceiling Panels look as good as they make your equipment and room sound.

Flexibility: metu™ Wall & Ceiling Panels provide the flexibility to easily hang on

walls and ceilings depending on the acoustical needs of your listening environment.

The Problem

Simply put, the properties of the listening environment define the quality of sound created within it. Room boundary conditions; such as room size and construction design play a significant role in distorting the sound quality of the listening space.

Untreated room surfaces allow first order reflections and uncontrolled reverberation times to negatively impact all six sound quality metrics. As a result, the listening experience is severely compromised and one's hard earned investment can be significantly reduced.

The Solution

metu™ Wall & Ceiling Panels incorporate patent pending “adjustable” diaphragmatic, and reactive sound absorption technology to control sound energy across a broad frequency spectrum. metu™ Wall & Ceiling Panels outperform standard porous fabric wrapped panels through the use of adjustable support legs (see photo below) and engineered diaphragmatic backer boards. The result is a linear, wideband room response that sounds controlled and natural.



Application Standards

Absorption coefficients for metu™ Wall & Ceiling Panels were tested in accordance with ASTM C423 from an accredited NVLAP test facility.

Freq (Hz)	metu(TM) Wall/Ceiling Panel Absorption Coefficients
125	0.08
160	0.09
200	0.16
250	0.31
315	0.47
400	0.53
500	0.70
630	0.81
800	0.91
1000	0.97
1250	1.02
1600	1.03
2000	1.03
2500	1.03
3150	1.03
4000	1.03
5000	1.04
NRC:	0.80

Physical Property Data

Wall/Ceiling Panel Dimensions: 24" wide x 48" long x (adjustable) 3" deep or 24" wide x 24" long x (adjustable) 3".
 Fabric Face Panel Size: 20" wide x 44" long x 1" thick or 20"x20"x (adjustable) 3".
 Average Panel Weight: 1.75 lbs/sq.ft.
 Wood Finish: Selected by customer
 Fabric Color: Selected by customer
 Noise Reduction Coefficient: NRC 0.80

Installation Procedure

metu™ Wall & Ceiling Panels come with materials necessary to easily assemble and hang on interior walls and ceilings. Ceiling mount requires anchors and screws, all supplied. Keep product safe and dry during shipping, storage, and installation.

Design Considerations

metu™ Wall & Ceiling Panels are part of the metu™ family of acoustic treatments used to control room acoustic distortions. AVRS recommends that metu™ Wall & Ceiling Panels be used with metu™ Corner Traps as part of a series of room treatment Stages. (metu™ Treatment Stages 1 thru 4) Ask your audio dealer about metu products or contact an AVRS representative for further details.